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TI - Organic diammonium and related compounds as solvent extractants

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AB - Metal ions are extd. from aq. solns. by a ditertiary amine, phosphine, or arsine of the general formula $R_1R_2M(CH_2)_nMR_3R_4$ ($M = N, P, \text{ or } As; n = 2-10; R_1, R_2, R_3, R_4 = C_7-12$ alkyl or aryl groups), and a diquatery ammonium, phosphonium, or arsonium salt of the general formula $R_1R_2R_3M(CH_2)_nMR_4R_5R_6-2X$ ($M = N, P, \text{ or } As; n = 2-10; X = Cl-, Br-, I-, SCN-, NO_3-, HSO_4-, \text{ or } SO_4^{2-}; R_1, R_2, R_3, R_4, R_5, R_6 = C_1-15$ alkyl or aryl groups, and $\sum R_i \geq 4$ are C_7-12). Preferred compds. are N,N,N',N'-tetraoctylethylenediamine [54378-14-2], N,N,N,N',N',N'-hexaoctylhexamethylenediammonium diiodide [82333-96-8], and N,N'-dimethyl-N,N,N',N'-tetraoctylethylenediammonium diiodide [82333-97-9]. Methods of prepn. are given. The use of compds. in extrn. of U, Fe, Cu, and Co are described.